In the Claims:

Please amend the claims as follows:

1. (currently amended) A method to revalidate a compiler and a compiler execution environment intended for compilation of a user-written program for safety control in an industrial control system after use of the compiler and the compiler execution environment, the method comprising:

compiling a test program a first time which test program is defined in a control language;
validating the compiler and the compiler execution environment by verifying that the test
program executes correctly;

generating a first software means derived from the compiled test program intended for later comparison purposes;

compiling the test program a second time after the compilation of a user-written program; generating a second software means intended for a comparison based on the second compilation of the test program;

comparing the first software means with the second software means; wherein the compiler and the compiler execution environment are revalidated for any to find errors introduced between the first and the second compilation; and

enabling, provided that the revalidation indicates no errors in the compiler and the compiler execution environment, the user-written program to execute in a device with safety features for control of real world entities; and

when the user-written program is enabled, executing said user-written program in said

device with safety features for control of real world entities.

- 2. (previously amended) The method according to claim 1, wherein the comparing is performed in the same workstation or general-purpose computer as that in which the compiler is executing.
- 3. (previously amended) The method according to claim 1, wherein the software means is a check-sum or a code for cyclic redundancy check.
- 4. (previously amended) The method according to claim 3, wherein the comparing is performed in the device with safety features.
- 5. (previously amended) The method according to claim 4, wherein the comparing further comprises downloading a variable that changes over time, which is downloaded in the same message as the check-sum or code to the device, where the variable that changes over time is used to achieve a change in the message.
- 6. (previously amended) The method according to claim 1, wherein the test program is defined in a control language derived from the standard IEC 6-1131.
 - 7. (currently amended) A computer program product, comprising:
 computer readable medium; and
 computer program instructions recorded on the computer readable medium and

executable by a processor for carrying out a method to revalidate a compiler and a compiler execution environment intended for compilation of a user-written program for safety control in an industrial control system after use of the compiler and the compiler execution environment, the method comprising:

compiling a test program a first time which test program is defined in a control language; validating the compiler and the compiler execution environment by verifying that the test program executes correctly;

generating a first software means derived from the compiled test program intended for later comparison purposes;

compiling the test program a second time after the compilation of a user-written program; generating a second software means intended for a comparison based on the second compilation of the test program;

comparing the first software means with the second software means; wherein the compiler and the compiler execution environment are revalidated for any to find errors introduced between the first and the second compilation; and

enabling, provided that the revalidation indicates no errors in the compiler and the compiler execution environment, the user-written program to execute in a device with safety features for control of real world entities; and

when the user-written program is enabled, executing said user-written program in said device with safety features for control of real world entities.

8. (cancelled)

9. (cancelled)